

Title (en)

Analog current limit adjustment for linear and switching regulators

Title (de)

Analoge Stromgrenzenanpassung für lineare Regler und Schaltregler

Title (fr)

Ajustement analogique de la limite du courant pour des régulateurs à découpage et linéaires

Publication

EP 2515422 B1 20170927 (EN)

Application

EP 11392003 A 20110422

Priority

EP 11392003 A 20110422

Abstract (en)

[origin: EP2515422A1] Circuits and methods for dynamic adjustment of the current limit of a power management unit to avoid unwanted automatic interruption of the power flow have been disclosed. The invention can be applied to switched and linear DC-to-DC converters. The power management unit is automatically adjusted to the output resistance of a power source (including interconnect resistance). The invention maximizes the time and hence the power transferred from a power management unit to the system (including the battery, in case of battery operated systems). The input current is reduced, thus increasing the input voltage in case of a high voltage drop across the internal resistance including interconnections between power source and power management unit.

IPC 8 full level

H02M 3/156 (2006.01); **G05F 1/575** (2006.01)

CPC (source: EP US)

H02M 3/156 (2013.01 - EP US)

Cited by

FR2996699A1; US2021273548A1; US11710976B2; US11159009B2; EP2982029B1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2515422 A1 20121024; EP 2515422 B1 20170927; US 2012268094 A1 20121025; US 8564273 B2 20131022

DOCDB simple family (application)

EP 11392003 A 20110422; US 201113068634 A 20110516